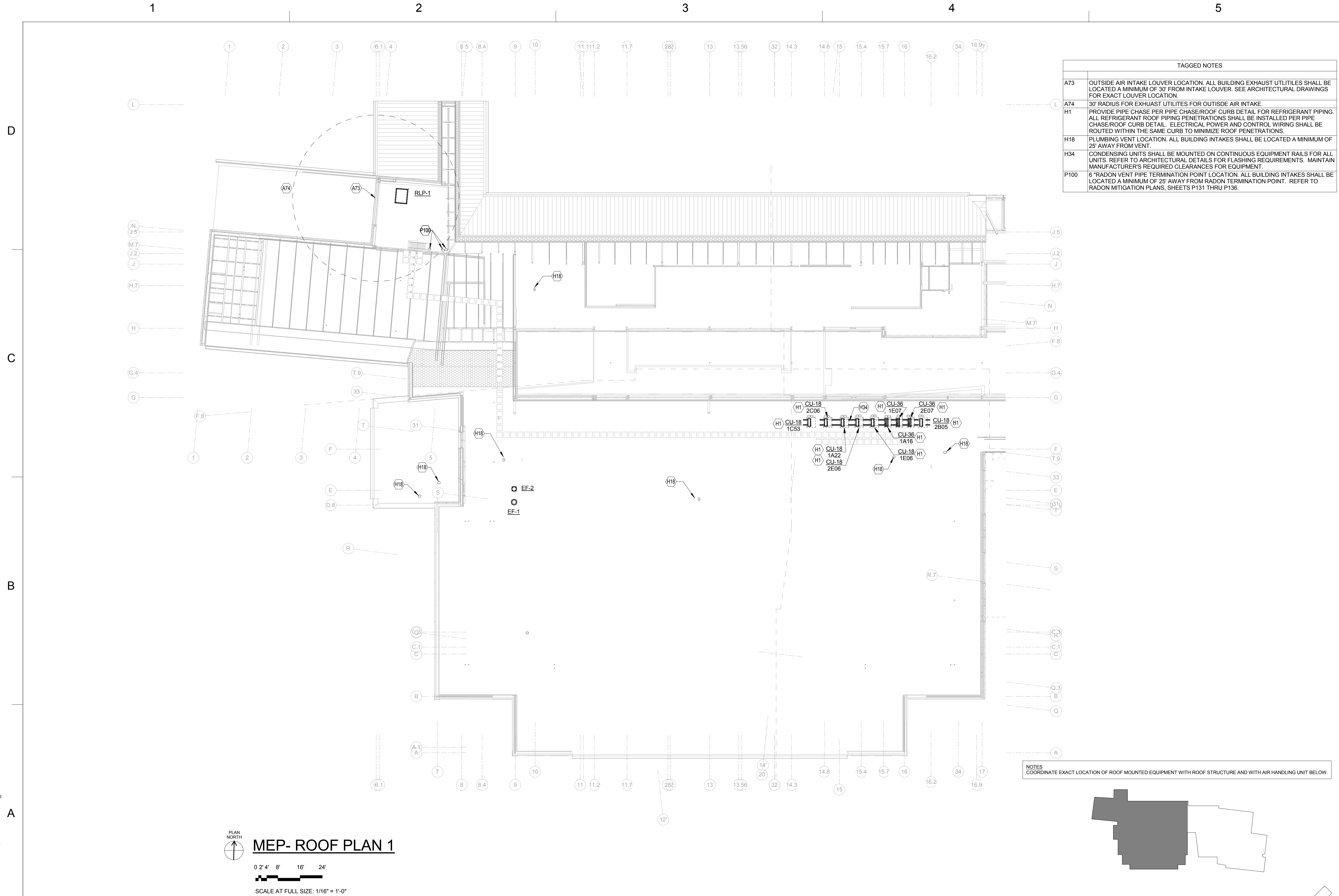


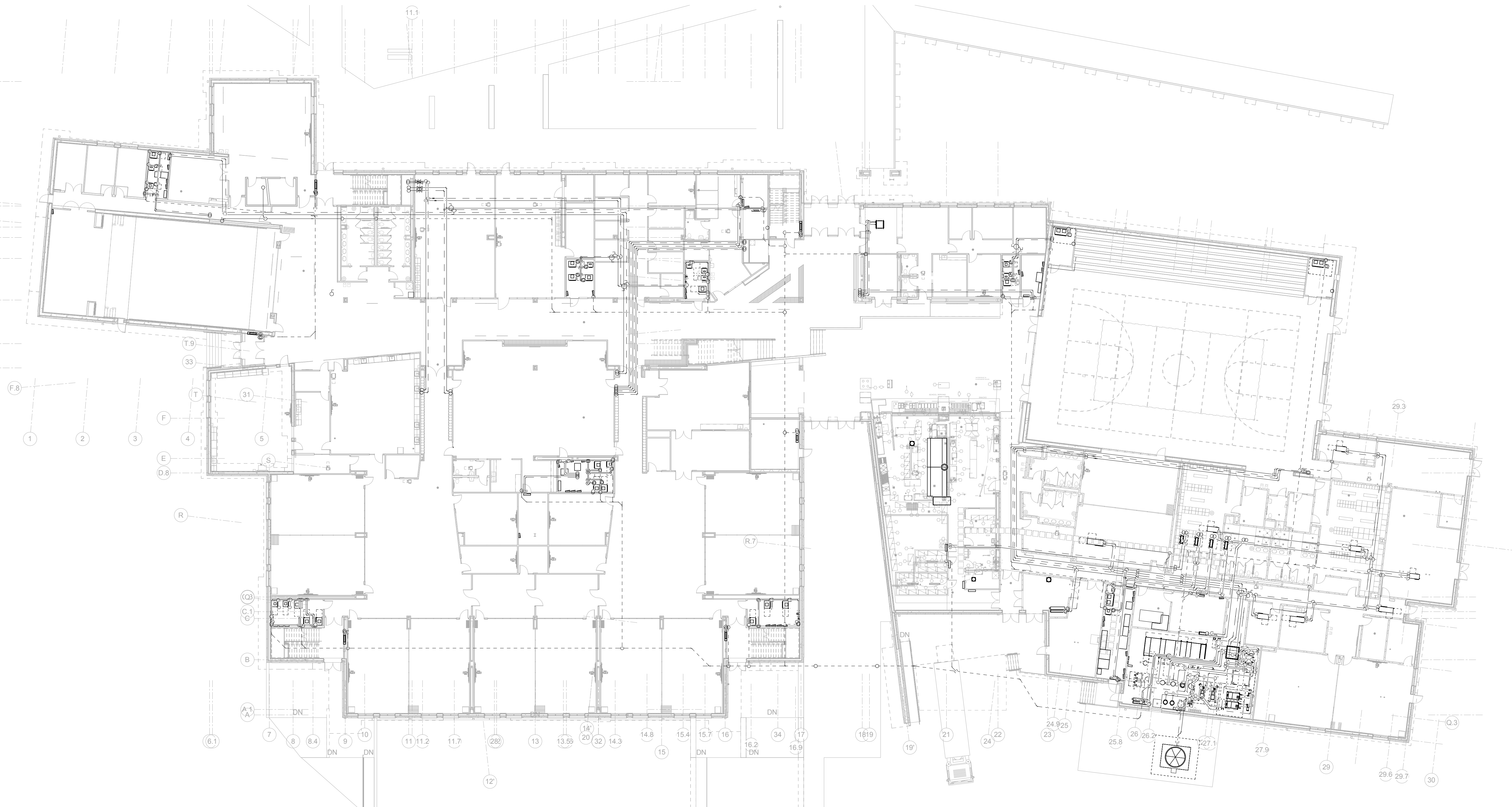
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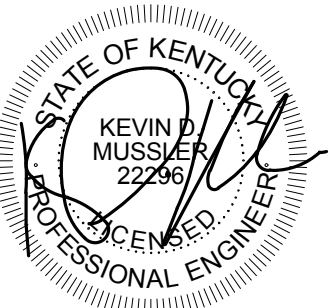
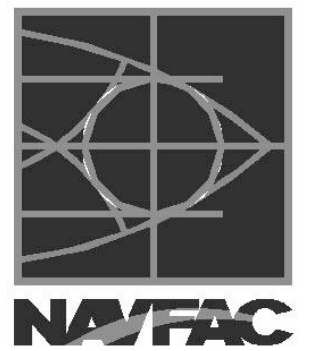
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FIRST FLOOR HYDRONICS - FOR REFERENCE ONLY



**EWING
COLE**

Federal Reserve Bank Building
100 North 6th Street
Philadelphia, PA 19106-1590
Tel: 215-923-2020 Fax: 215-574-0952

WE INFO

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FOR COMMANDER NAVFAC
ACTIVITY

SATISFACTORY TO DATE

CRR	LMN/CRR	KL
BM/DM		

BRANCH MANAGER

FIRE PROTECTION

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1" = 201.3"

PROJECT NO.: P-021

CONSTR. CONTR. NO.
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NAVFAC DRAWING NO.

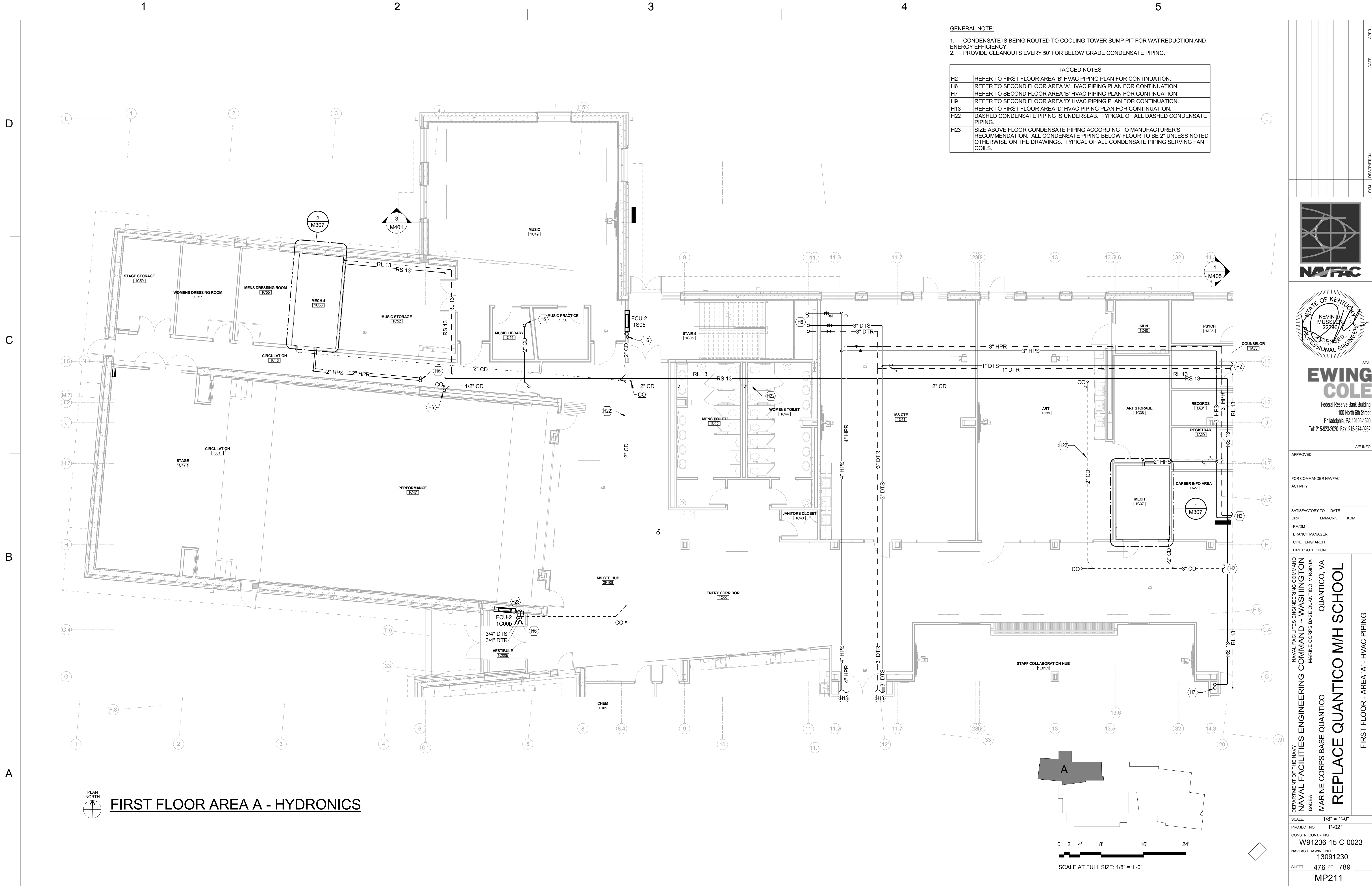
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SHEET 474 OF 789

MF-101

DRAWFORM REVISION: 10 MAR 1988

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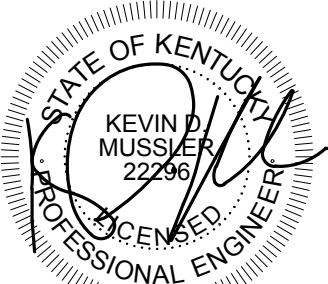




FIRST FLOOR AREA B - HYDRONICS

1. CONDENSATE IS BEING ROUTED TO COOLING TOWER SUMP PIT FOR WATER REDUCTION AND ENERGY EFFICIENCY.
2. PROVIDE CLEANOUTS EVERY 50' FOR BELOW GRADE CONDENSATE PIPING.

TAGGED NOTES	
H3	REFER TO FIRST FLOOR AREA 'A' HVAC PIPING PLAN FOR CONTINUATION.
H4	REFER TO FIRST FLOOR AREA 'E' HVAC PIPING PLAN FOR CONTINUATION.
H7	REFER TO SECOND FLOOR AREA 'B' HVAC PIPING PLAN FOR CONTINUATION.
H11	REFER TO SECOND FLOOR AREA 'E' HVAC PIPING PLAN FOR CONTINUATION.
H22	DASHED CONDENSATE PIPING IS UNDERSLAB. TYPICAL OF ALL DASHED CONDENSATE PIPING.
H36	PROVIDE 3/4" DRAIN DOWN LINE WITH 3/4" BALL VALVE IN VERTICAL DUAL TEMPERATURE PIPING. ROUTE DRAIN DOWN LINE TO FLOOR DRAIN.



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A/E INF

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ACTIVITY

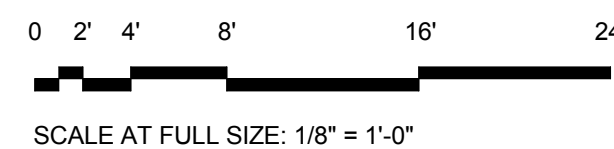
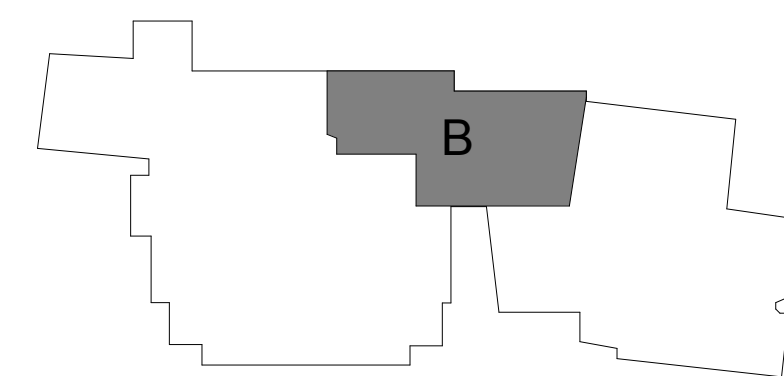
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PM/DM	
BRANCH MANAGER	
CHIEF ENG/ ARCH	
FIRE PROTECTION	

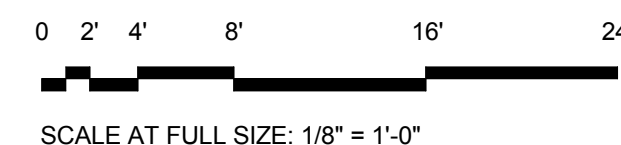
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ WASHINGTON
DDEA MARINE CORPS BASE QUANTICO, VIRGINIA QUANTICO, VA

REPLACE QUANTICO M/H SCHOOL

FIRST FLOOR - AREA 'B' - HVAC PIPING

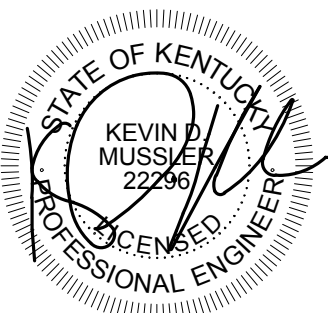
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PROJECT NO.:	P-021	
CONSTR. CONTR. NO.	W91236-15-C-0023	
NAVFAC DRAWING NO.	13091231	
SHEET	477 OF	789
MP212		





SCALE AT FULL SIZE: 1/8" = 1'-0"

H2	REFER TO FIRST FLOOR AREA 'B' HVAC PIPING PLAN FOR CONTINUATION.
H4	REFER TO FIRST FLOOR AREA 'E' HVAC PIPING PLAN FOR CONTINUATION.
H7	REFER TO SECOND FLOOR AREA 'B' HVAC PIPING PLAN FOR CONTINUATION.
H8	REFER TO SECOND FLOOR AREA 'C' HVAC PIPING PLAN FOR CONTINUATION.
H10	REFER TO FIRST FLOOR AREA 'F' HVAC PIPING PLAN FOR CONTINUATION.
H47	PIPES ARE TO BE STACKED TO PENETRATE WALL NEXT TO EXHAUST GRILLE. PIPES ARE SHOWN SEPARATED FOR CLARITY.



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CHIEF ENG/ ARCH

FIRE PROTECTION

NAVAL FACILITIES ENGINEERING COMMAND ~ WASHINGTON
MARINE CORPS BASE QUANTICO, VIRGINIA
DoDEA

MARINE CORPS BASE QUANTICO

QUANTICO, VA

REPLACE QUANTICO M/H SCHOOL

SCALE: $1/8" = 1'-0"$

PROJECT NO.: P-021

CONSTR. CONTR. NO.

W91236-15-C-

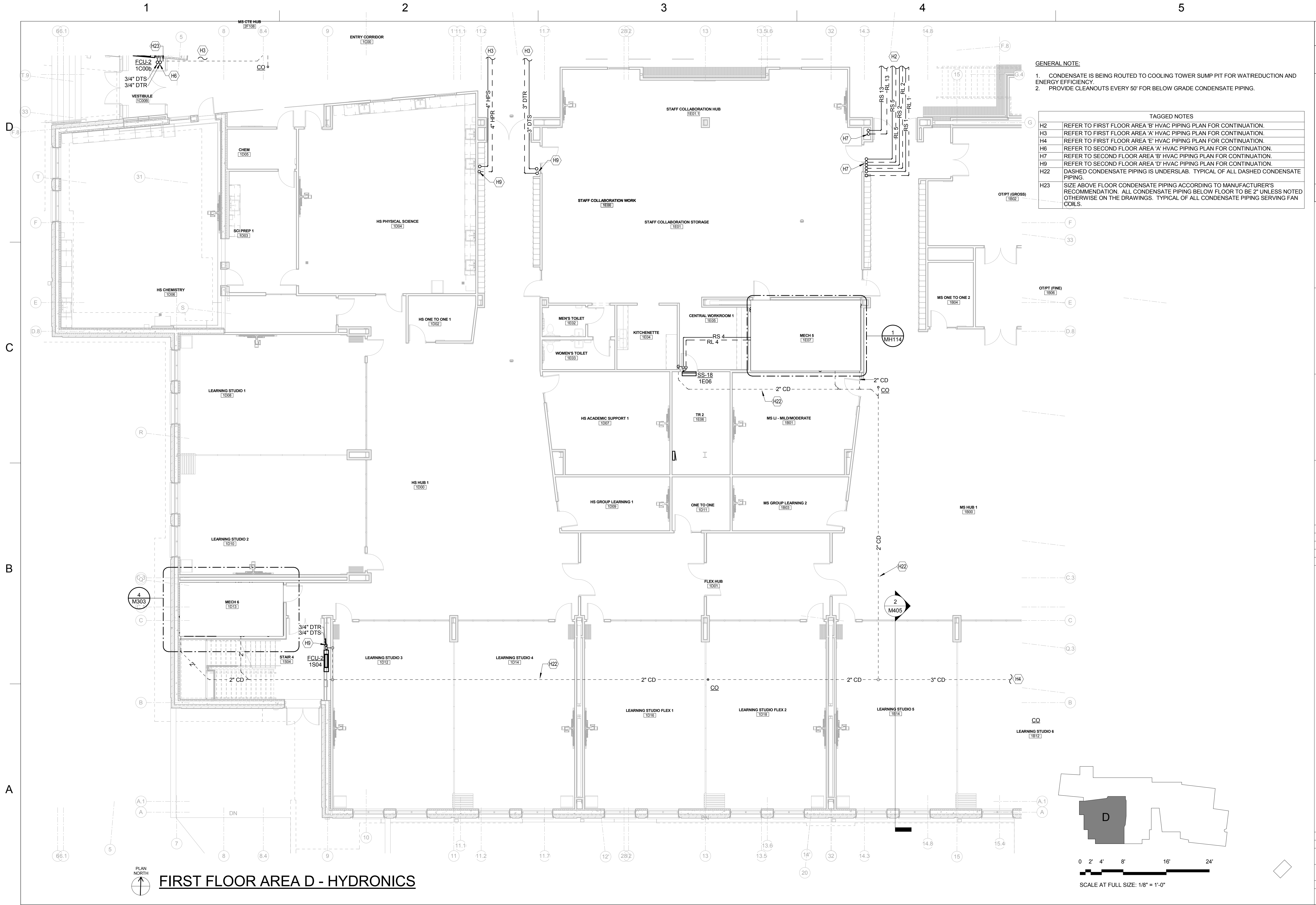
AVFAC DRAWING NO. 1000-1-000

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SHEET 478 OF 78

MP213

DRAWFORM REVISION: 10

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HEAT PUMP RUNOUT SCHEDULE		
MARK	CONDENSATE PIPE SIZE	HPS/HPR PIPE SIZE
HHP-12	3/4"	1"
HHP-18	3/4"	1"
HHP-24	1"	1"
HHP-30	1"	1-1/4"
HHP-36	1"	1-1/4"
VHP-06	1"	3/4"
VHP-12	1"	1"
VHP-18	1"	1"
VHP-24	1"	1"
VHP-30	1"	1-1/4"
VHP-36	1"	1-1/4"
VHP-42	1"	1-1/4"
VHP-48	1"	1-1/2"
VHP-60	1-1/4"	1-1/2"
VHP-72	1-1/4"	2"
VHP-96	1-1/4"	2"
VHP-120	1-1/4"	2"